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148. (New) The method of claim 135 wherein the distinct areas are separate buildings.REMARKS

Applicants respectfully request entry of this preliminary amendment prior to examination of this application. By this preliminary amendment, Applicants are canceling claims 64, 80 and 84. The subject matter of claim 64 has been added to claim 63 and the subject matter of claims 80 and 84 have been added to claim 78. Claims 1, 2, 4, 14, 15, 16, 22, 28, 30, 31, 45, 51, 52, 65, 66, 67, 79, 81, 82 and 87 have been amended to more distinctly claim the present invention. New claims 88-148 have been added to further define the invention. No new matter has been added.

Support for claims 88-89 may be found at least in the specification on page 21, lines 16-23. Support for claims 90-91 may be found at least in the specification least on page 16, lines 8-19, and page 18, lines 3-23. Support for claim 92 may be found at least in the specification on page 26, lines 29-32. Support for claims 93 and 94 may be found at least in the specification on page 25, lines 2-24, for claims 95 and 96 at least in the specification on page 14, lines 4-23. Support for claims 97 and 98 may be found at least in the specification on page 17, lines 12-15, and for claim 99 at least in the specification on page 28, lines 9-24 and page 29, line 30 – page 30, line 8. Support for claims 100-101 may be found at least in the specification on page 31, lines 1-6, for claim 102 at least in the specification on page 17, lines 25-28, and for claim 103 at least in the specification on page 31, lines 12-22. Support for claims 104-115 may be found at least in the specification on page 18, line 3 - page 21, line 15 and page 22, line 6 - page 24, line 27. Support for claims 116 and 117 may be found at least in the specification on page 17, lines 1-11, and claim 118 at least in the specification on page 14, lines 4-13 and page 28, lines 25-32. Support for claims 119 and 120 may be found at least in the specification on page 28, line 14 – page 29, line 3. Support for claim 121 may be found at least in the specification on page 13, line 25 – page 14, line 24. Support for claims 122-134 may be found at least in the specification on page 14, lines 4-13, page 17, lines 12-28, page 26, lines 29-32, and page 27, lines 10-16. Finally, support for claims 135-148 may be found at least in the specification on page 24, lines 1-27 and page 25, lines 20-23. Upon entry of these amendments, claims 1-63, 65-79, 81-83 and 85-148

are pending.

The claims as presented are believed to be in allowable condition. Favorable action is earnestly solicited. If there is a fee occasioned by this preliminary amendment, including an extension fee, that is not covered by an enclosed check, please charge any deficiency to Deposit Account No. 23/2825.

Respectfully submitted,

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MARKED-UP CLAIMS

1. (Amended) An air monitoring system, comprising:
 - an air monitoring unit including at least one sensor for acquiring air quality parameter data; and
 - a computer [having] including an expert system for controlling the air monitoring unit based at least in part on the acquired air quality data.
2. (Amended) [An]The air monitoring system of claim 1, wherein the expert system is adapted to analyze data from the air monitoring unit based at least in part on the acquired air quality data.
4. (Amended) The air monitoring system of claim 1, wherein:
 - [wherein] the expert system is adapted to configure a test to be performed by the air monitoring unit including the location of the test and the time duration for the test.
14. (Amended) The air monitoring system of claim 13, wherein the air monitoring unit is adapted to download information [to the air monitoring unit]from the remote data center capable of changing the operational parameters of the air monitoring unit.
15. (Amended) The air monitoring system of claim 9, wherein the communications link includes [the]an Internet.
16. (Amended) An air monitoring system, comprising:
 - an air monitoring unit [having] including at least one sensor for measuring air quality parameter data, and a computer for storing the data received from the sensor;
 - a remote data center including a database for storing the air quality parameter data and receiving inputted characteristics, and an expert system interactive with the air quality parameter data for analysis of the data in relation to certain inputted characteristics; and
 - a communication link between the data center and the air monitoring unit;wherein the remote data center downloads information to the air monitoring unit through

the communication link to modify the function of the air monitoring unit.

22. (Amended) The air monitoring system of claim 16, wherein the communications link includes [the]an Internet.

28. (Amended) The air monitoring unit of claim [22]23, further comprising a standardized electrical interface to support at least two sensor cards.

30. (Amended) The air monitoring unit of claim 23, further comprising a sensor for monitoring radon; and having at least one sensor for air monitoring purposes.

31. (Amended) An air monitoring system, comprising:
an air monitoring unit including a grab sampler contained within the air monitoring unit for acquiring an air sample;
a remote control unit for controlling the air monitoring unit; and
a communications link between the [control center]remote control unit and the air monitoring unit;
wherein the [control unit]remote control unit is adapted to download a command to the air monitoring unit to trigger the grab sampler to acquire an air sample.

45. (Amended) Apparatus comprising:
an air monitoring system [comprising]including at least one sensor for acquiring air quality data at a selected indoor location; and
a control site for controlling operation of the air monitoring system through [the]an Internet.

51. (Amended) Apparatus as defined in claim 45, wherein said air monitoring system [comprises]includes a portable air monitoring unit that is movable to different indoor locations.

52. (Amended) Apparatus as defined in claim 45, wherein said air monitoring system [comprises]includes an installed system for monitoring air quality in multiple indoor locations.

63. (Amended) A sensor card for use in an air quality monitoring system, comprising:
a card having a connector for electrical connection to the air quality monitoring system; [and]
an air quality sensor mounted on said card for providing sensor data through said connector to the air quality monitoring system; and
a shroud mounted on said card for defining an air flow path to said air quality sensor, said shroud having an inlet and outlet.

65. (Amended) A sensor card as defined in claim [64]63, further comprising a perforated divider mounted in said shroud for controlling air flow through said shroud.

66. (Amended) A sensor card as defined in claim [64]63, further comprising means for producing a substantially laminar air flow through said shroud.

67. (Amended) A sensor card as defined in claim [64]63, wherein the inlet and outlet of said shroud are provided with quick disconnect connectors.

78. (Amended) An air quality monitoring unit comprising:
a housing;
a plurality of easily removable air quality sensors mounted in said housing; [and]
a programmable control unit having an interface to said air quality sensors,
wherein said control unit is programmable so as to customize the air quality monitoring unit for operation with different sensors; and
a manifold for transporting air from an inlet to said air quality sensor;
wherein said control unit includes an Internet interface for receiving operating information through the Internet.

79. (Amended) An air quality monitoring unit as defined in claim 78, wherein [each]at least one of said air quality sensors is mounted on a sensor card plugged into a card cage in said housing.

81. (Amended) An air quality monitoring unit as defined in claim [80]78 further comprising at least one sensor located in said manifold near said inlet for sensing a parameter that changes rapidly.

82. (Amended) An air quality monitoring unit as defined in claim [80]78 further comprising a vacuum pump for drawing air through said inlet to said plurality of air quality sensors.

87. (Amended) An air quality monitoring unit as defined in claim 78, further comprising a sensor interface card coupled between said air quality sensors and said control unit.